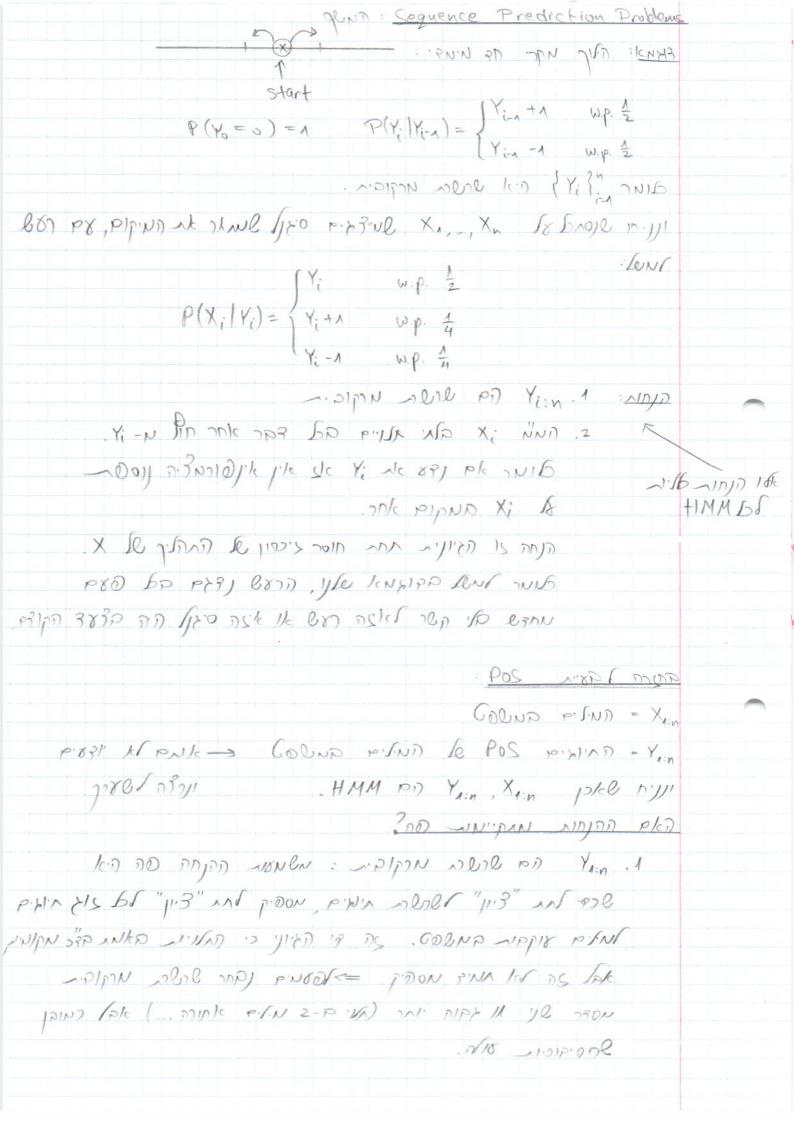
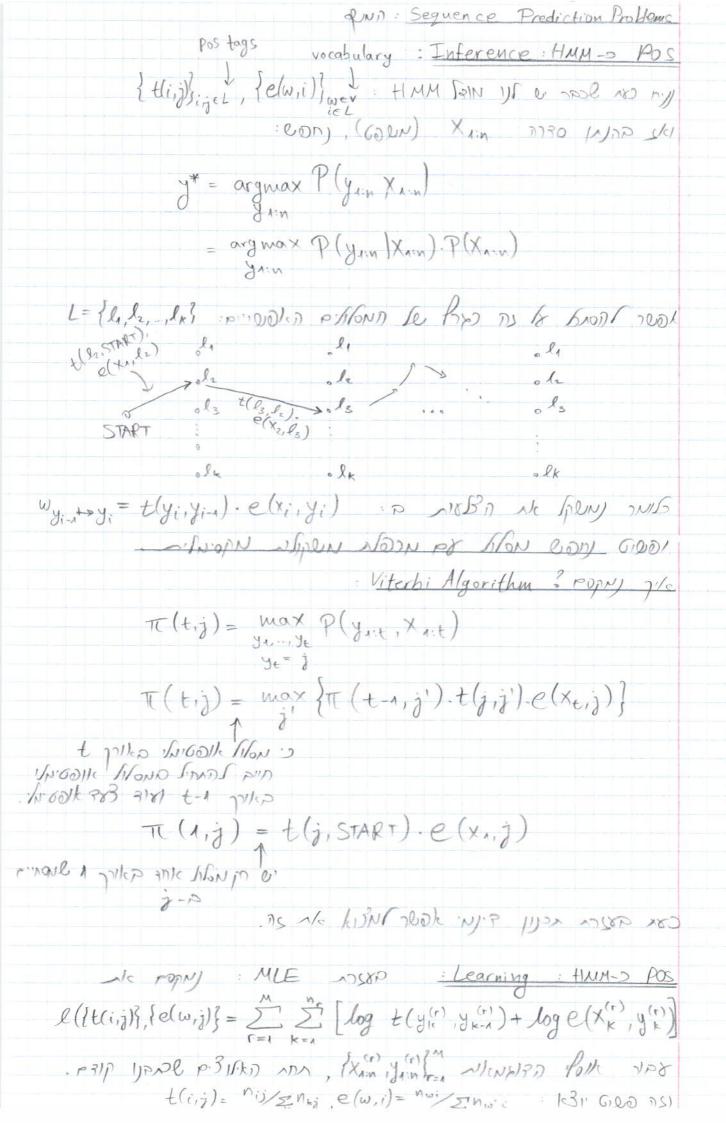


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Pun: Sequence Prediction Problems
      ( verb noun) Coun ind air Part of Speech Tagging IT
              4 CUESTUR (ALE CUSTUR (AUT) UNITA OX.361 (CIT.
            3/20 10 108 600 yes and as 100 100 101.
                 -> ניצה להשאמט באינוסויטציה של החקשר.
                                          3 1/2 0. 83.N DRK
        1. GONGRIIL D WIGH: GIZI GONGRU GUITE WAS
MIG. SE COR 19/51 CLOUSEUT CONSULTED AS SIN
  5. Mid Ochv: , o LEQ: A JU. MOOD BED 11 OC. 13
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                        '-ly'->adverb :p"plionin =', ohn.3 <
   1600 Deurs noor & auto nanage De.
      URLE. 2/000 94.2 MIEIN DICH ANG. (1.06) ya NOVG.d W. 8/
            NYO GISON IN STUTE STOOLS OU CITOR LINCO
                     ATO -00.000 VAINU YK J. SEUR USJ 1.578
             Y, , Y P : TN P : MAN De (sequence) 2730 : DIFED
    ( DJIER) THIRM, MYKINID, Markov Chain N. PIPON DODE 1000
             \forall i \quad P(Y_i|Y_1,...,Y_{i-1}) = P(Y_i|Y_{i-1}) \quad pk
              ( \Rightarrow ) Y_i \perp \{Y_{\Lambda_i,\dots_i}Y_{i-2}\}|Y_{i-\Lambda_i}
GONGELL NO NO
Y, Y2, ..., Yn De
              ( \rightarrow ) P(Y_{in}) = \prod P(Y_{i}|Y_{i-1})
         קנתת נוטציה: נסמן אצטהי הסתמרות התחלתית ואולים בין ק
  Dismis LUSU CNIJY JUNTE COPIE EUL - CI/PIUM
             HMM 10 X1,..., Xn, Y1,..., Yn NN & 1770 2:07780
    "N" PNE NONEND NORMOND Ple (Hidden Markov Model)
            P(Yin, Xin)=TP(Y: |Yin) - TP(X: /Yi)
- FIGHT MED Y-DU FININ DUD ISI
         P(Yain)
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QUA : Sequence Prediction Problems JON : HMM SO MAIN PIT: POS S. ; X ON NI Glid FOR MI N- ; Y. AMA 21 GAM BY NYLINU DA DIASI, P.J. 128,d NU UNICU 42 A LAS ME CIVIS 508 SPUT PINIE SUR CICULANIA : HMM le PIGURD 129/16 proposition of transition probabilities 1 t(y,y')=P(Yi=y | Yi-x=y') :7N15 ?700 $\forall y' \geq t(y,y') = 1$ וחים להתקיים: , Xi-IW por Y: I slock y por Br: emission probabilities. 2 $e(w,y) = P(X_i = w | Y_i = y)$? INPLOUD IN ∀y ∑ e(ω,y) =1 149 ell (811): Bill saw that man yesterday /wx13 X1 X2 X3 X4 X5 Name Verb Conj Noun Adverb Y1 Y2 Y3 Y4 Y5 P(X1:n, Y1:n) = t(Name, Start) - t(verb, Name) · e (Bill, Name) · e (Saw, Verb) · DON 71/2 1.000 to e Ne aINS is - DON 11-610 IN Sel TRICKE GALL LINEME LIKE.



JUND : Sequence Prediction Problems Maximum Entropy Markov Model: MEMM-s Pas HWW 10 & 6.119.6" DON JOBKN DO BOILT. a-MMH ISI CALLI DISAND AR G-SANDER, CMI AND MICOLLY: OF M. OF M. OF MICO SI AL (16.21 MS) NAIE - 10 MS) NAIE N.E.S. E. OT MIR GLUY CUIES OFFICE MORE UNJ.A. KIR PIX-TH PIARE MODE 1/k- THIS. discriminative Film DS of acry X-17 (400 yr C-X-14) X /8 -1/17 7:03 /65<= $P(Y_{1:n}|X_{1:n}) = \prod_{i=1}^{n} P(Y_{i}|Y_{i-1},X_{1:n}) = \vdots \cap \mathcal{Y}$ Conditional independence $= \prod_{i=1}^{n} \frac{\langle \Phi(y_i, y_{i-1}, x_{i:n}, i), \omega \rangle}{Z(x_{1:n}, Y_{i-1})}$ SAND & POGNOTI I'M W-1 YE features - NOPHO IS D TUKO